

GENEVA INDUSTRIES/FUHRMANN ENERGY

EPA ID# TXD980748453
Site ID: 0602809

EPA REGION 6 CONGRESSIONAL DISTRICT 29

Houston, Harris County
Texas

Updated: June 10, 2004

Site Description

- Location:**
- 9334 Caniff Road, Houston, Harris County, Texas.
 - Two miles east of Hobby Airport, in a residential and light industrial area.
- Population:**
- Approximately 35,000 people live within a one-mile radius.
- Setting:**
- The nearest residence is less than 50 feet east and southwest of the site.
 - The nearest drinking water well is 300 yards south of site, screened in the 100-foot sand.
 - The site covers 13 acres, and includes several closed lagoons, a landfill, and a landfarm area on the south portion of the site.
 - The site is currently fenced, with a grass-covered cap over the removal area.
- Hydrogeology:**
- Primarily clay and silts in the soil with occasional sand zones are found onsite.
 - The first water-bearing zone is 30 feet below surface with the first water supply zone found 100 feet below surface.

Wastes and Volumes

- The principal pollutants at the Geneva site include polychlorinated biphenyls (PCBs) in soils (up to 12,200 parts per million, or ppm) and shallow ground water (710 parts per billion, or ppb).
- Polynuclear aromatic (PNA) compounds are also found in soil (165 ppm) and shallow ground water (to 1,500 ppb).
- Drums found in the landfill area.
- Trichloroethylene (TCE) has been found in shallow ground water (420ppb) and in deep ground water (26-28ppb).
- 62,290 tons (approx. 45,000 cubic yards) of soil and debris contaminated with greater than 100 ppm of PCBs, and 700 drums have been removed from site at a total construction cost of \$20,624,984 for the Source Control Portion of the Site.
- Approximately 35,000,000 gallons of ground water are estimated to be contaminated. As of November 14, 1998, 14,037,948 gallons of ground water had been treated and discharged. This Ground Water Contract Amount including nine 9 amendments is \$ 2,499,139.01, and the current contract time for the treatment phase ends in June, 2003 (a period of 3,650 days).

Site Assessment and Ranking

NPL LISTING HISTORY

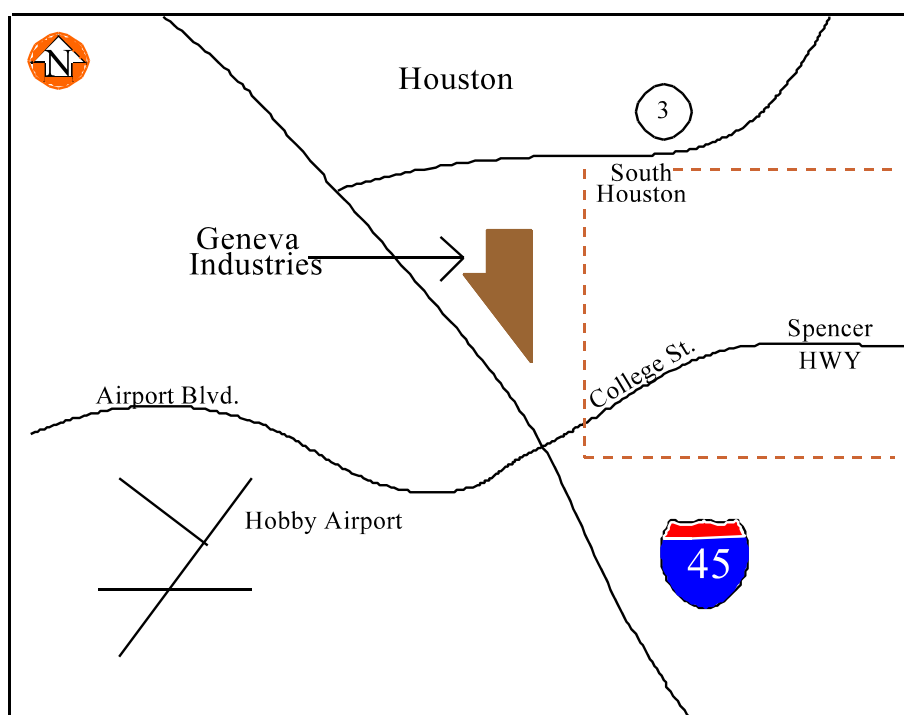
Site HRS Score: 59.46

Proposed Date: 9/08/83

Final Date: 9/21/84

NPL Update: No. 1

Site Map and Diagram



The Remediation Process

Site History:

- Prior to 1967, the area was used in petroleum exploration and production activities.
- From 1967 to 1974, Geneva Industries operated a petrochemical production facility, manufacturing biphenyls with toluene and fuel as by products.
- From 1974 to 1984, Pilot Industries operated same type facility.
- In June 1983 through July 1984, the Geneva Site was stabilized through EPA removal actions.
- From 1984 to 1985, Fuhrman Industries salvaged equipment from the Geneva Site.

Health Considerations:

- High PCB concentrations in soil posed a significant health threat via direct contact or surface runoff prior to remediation.

Other Environmental Risks:

- Soil contaminants migrating via surface run-off into an adjacent flood control channel.

Record of Decision

Signed: September 18, 1986
ESD July, 1993

Ground Water:

- Contaminated ground water extraction from wells, and treatment using carbon adsorption.

Soils:

- Off-site landfill disposal of soils and drums.

<u>Other Remedies Considered</u>		<u>Reason Not Chosen</u>
1	"No Action"	Did not meet remedial objectives
2.	On-site Landfill	Not cost-effective
3.	On-site Incineration	Not cost-effective, poor public acceptance

Community Involvement

- Community Involvement Plan: Developed 5/84, revised 3/87
- Open houses and workshops: 7/83, 10/83, 9/90
- Proposed Plan Fact Sheet: 4/86
- Public Meeting: 5/22/86
- Original ROD Fact Sheet: 9/86
- Milestone Fact Sheets: 6/83, 9/83, 2/84, 4/84, 6/84, 1/88, 5/88, 6/89, 5/90, 9/90, 10/94
- Citizens on site mailing list: 435
- Constituency Interest: Low - State lead on Community Relations
- Site Repository: Library, University of Houston, Main Campus, 4800 Calhoun Boulevard, Houston, TX 77204

Technical Assistance Grant

- Availability Notice: 2/89, Re-advertised 12/89, Mailing 9/90
- Letters of Intent Received:
 1. South Houston Vista for Senior Citizens - 2/24/89 (withdrew Letter of Intent)
 2. Geneva Coalition - 3/31/89 (failed to submit application)
 3. LULAC Council 90 - 4/10/89 (failed to submit application)
 4. LIFT Endowment Fund, Inc. - 2/8/90 (withdrew Letter of Intent on 8/90)
- Final Application Received: None
- Grant Award: N/A
- Current Status: No current applicants; no apparent citizen interest in grant

Contacts

- **Remedial Project Manager (EPA):** Gary G. Miller;
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- **Community Involvement (EPA):** Gary Miller, 6SF-AP
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- **EPA Region 6 Public Liaison:** Arnold Ondarza,
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Present Status and Issues

- The EPA conducted a Five Year Review of the Site on September 25, 2003, which indicated the remedy is protective short-term.
- The cleanup actions performed by the EPA and the Texas Natural Resource Conservation Commission (TNRCC) have eliminated the potential for exposure to surface contamination while long-term groundwater cleanup activities continue to reduce contamination at the Geneva Industries/Fuhrmann Energy site.
- The ground water pump and treatment system is currently operating.
- The Notice of Partial Deletion (Source) of the Geneva Industries Superfund Site from the NPL was signed February 28, 1997 and finalized by Federal Register Notice.
- The First Five Year Review was finalized by signature on 6/8/98.
- Current activities at site include recent awarding of contract for placement of automatic monitoring wells to measure water level recovery inside slurry wall.

Benefits

- Remediation of the Geneva Industries site will reduce site risks and hazards from a variety of contaminants for over 35,000 residents living within one mile of the site.
- Approximately 20 million gallons of contaminated water will be treated